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L2	3	09/658,239 <i>Rev all</i>	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 10:51
L3	129	717/121.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 10:51
L4	27	(717/121.ccls.) and (stor\$4 near3 execut\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 10:53
L5	1	(717/121.ccls.) and (remote same stor\$4 near3 execut\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 10:54
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L7	12	(717/173.ccls.) and (remote same stor\$4 near3 execut\$4) <i>Rev all</i>	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 10:56
L8	3418	709/217.ccls. <i>Scan</i>	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 10:56
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L10	346	345/634.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 10:58

L11	1	345/634.ccls. and (remote same stor\$4 near3 execut\$4) <i>Rev all</i>	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 10:58
L12	17	predetermined near2 function near2 definition\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 10:58
L13	22	717/106-109.ccls. and sun.as. and (execute or run) same (component\$2 or module\$2 or definition\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 11:06

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1 [Architecture of a knowledge-based system for remote sensor data analysis](#) 

Wolf-Fritz Riekert, Oliver Gunther, Gunter Hess
June 1990 [Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1](#)

Full text available: [pdf \(526.72 KB\)](#) Additional information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the current status of the project RESEDA, which stands for REmote SEnsor Data Analysis. The main objective of RESEDA is the development of a knowledge-based system for the extraction of environmental information from digital raster images of the earth, obtained from airborne or spaceborne sensors. The project is designed to satisfy user demands for standardization and for improvement of image-processing results by means of ancillary data. The project, w ...

2 [A Parallel Implementation of 4-Dimensional Haralick Texture Analysis for Disk-Resident Image Datasets](#) 

Brent Woods, Bradley Clymer, Joel Saltz, Tahsin Kurc
November 2004 [Proceedings of the 2004 ACM/IEEE conference on Supercomputing](#)

Full text available: [pdf \(386.59 KB\)](#) Additional information: [full citation](#), [abstract](#)

Texture analysis is one possible method to detect features in biomedical images. During texture analysis, texture related information is found by examining local variations in image brightness. 4-dimensional (4D) Haralick texture analysis is a method that extracts local variations along space and time dimensions and represents them as a collection of fourteen statistical parameters. However, the application of the 4D Haralick method on large time-dependent 2D and 3D image datasets is hindered by ...

3 [Integrating volume data analysis and rendering on distributed memory architectures](#) 

Emilio Camahort, Indranil Chakravarty
November 1993 [Proceedings of the 1993 symposium on Parallel rendering](#)

Full text available: [pdf \(1.16 MB\)](#) Additional information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: 3D data processing, distributed memory architectures, graphics algorithms, parallel computer, scientific visualization, volume rendering

4 [An integrated environment for development and execution of real-time programs](#) 

B. Bruegge, T. Gross
June 1988 [Proceedings of the 2nd international conference on Supercomputing](#)

Full text available: [pdf \(1.45 MB\)](#) Additional information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The goal of the Warp Programming Environment (WPE) is to provide easy access to the Warp machine, a parallel supercomputer with a peak performance of 100 MFLOPS that is based on the systolic array architecture. The Warp Programming Environment offers a uniform environment for editing, compiling, debugging and executing Warp programs. It is based on an extensible shell written in Common Lisp and a runtime system written in C. It runs on a network of SUN-3 workstations under UNIX 4.2. This pa ...

5 [Using the Linda distribution paradigm to address a variety of computational balancing concerns](#) 

Jack Cummings, Ray Ford
March 1992 [Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's](#)

Full text available: [pdf \(796.42 KB\)](#) Additional information: [full citation](#), [references](#), [index terms](#)

6 The evolution of the Sperry Univac 1100 series: a history, analysis, and projection

B. R. Borgerson, M. L. Hanson, P. A. Hartley

January 1978

Communications of the ACM, Volume 21 Issue 1Full text available:  pdf(1.69 MB)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The 1100 series systems are Sperry Univac's large-scale mainframe computer systems. Beginning with the 1107 in 1962, the 1100 series has progressed through a succession of eight compatible computer models to the latest system, the 1100/80, introduced in 1977. The 1100 series hardware architecture is based on a 36-bit word, ones complement structure which obtains one operand from storage and one from a high-speed register, or two operands from high-speed registers. The 1100 Operating System ...

Keywords: 1100 computer series, computer architecture, data management systems, end user facilities, executive control software, multiprocessing, multiprogramming, operating system, programming languages

7 APLNET, a local computer network

Daniel Brocklebank

July 1982

ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL, Volume 13 Issue 1Full text available:  pdf(553.06 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A local network has been developed to interconnect computers used by the Applied Physics Laboratory of Johns Hopkins University (APL/JHU). The network is based upon proven, commercially available networking components and the APL/MVS interactive system which offers Iverson's APL to users of large-scale IBM processors. The need for users of the APL language to access data within minicomputer systems and to control specialized peripherals connected to those minicomputers constituted a major m ...

8 StratOSPHERE: mobile processing of distributed objects in Java

Daniel Wu, Divyakant Agrawal, Amr El Abbadi

October 1998

Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networkingFull text available:  pdf(1.39 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**9 Session 2: An accelerated remote graphics architecture for PDAs**

Fabrizio Lamberti, Claudio Zunino, Andrea Sanna, Antonino Fiume, Marco Maniezzo

March 2003

Proceeding of the eighth international conference on 3D Web technologyFull text available:  pdf(13.98 MB)Additional Information: [full citation](#), [abstract](#), [references](#)

A new category of devices, known as Personal Digital Assistant (PDA), has become increasingly widespread since the end of the nineties. A large number of software applications have been developed for PDAs, but high-quality 3D graphics still remain beyond the computational capability of these devices. This paper tackles this issue by proposing a generic solution for hardware-accelerated remote rendering on cluster. The rendering task is submitted to a PC/workstation cluster (each cluster machine i ...

10 Session 3: Energy-aware OS's: Every joule is precious: the case for revisiting operating system design for energy efficiency

Amin Vahdat, Alvin Lebeck, Carla Schlatter Ellis

September 2000

Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating systemFull text available:  pdf(71.97 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

By some estimates, there will be close to one billion wireless devices capable of Internet connectivity within five years, surpassing the installed base of traditional wired compute devices. These devices will take the form of cellular phones, personal digital assistants (PDA's), embedded processors, and "Internet appliances". This proliferation of networked computing devices will enable a number of compelling applications, centering around ubiquitous access to global information serv ...

11 Systems Issues: Rajicon: remote PC GUI operations via constricted mobile interfaces

Norman Makoto Su, Yutaka Sakane, Masahiko Tsukamoto, Shojiro Nishio

September 2002

Proceedings of the 8th annual international conference on Mobile computing and networkingFull text available:  pdf(1.18 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As of now, it is not uncommon for one to use multiple computers in separate places such as at home, office or school. A number of applications currently exist to allow a user to easily access and control these computers remotely via a notebook computer or web page. Unfortunately, even with such solutions, it is rather inconvenient, for example, to try accessing your computer while walking downtown or riding a train. On the other hand, considering that cellular phones have been accepted as multi- ...

Keywords: GUI, cellular phone, mobile device, remote access

¹² **Data-intensive computing and digital libraries**

Reagan Moore, Thomas A. Prince, Mark Ellisman
November 1998 **Communications of the ACM**, Volume 41 Issue 11

Full text available: [pdf\(940.56 KB\)](#)

Additional information: [full citation](#), [references](#), [citing](#), [index terms](#)



¹³ **Evaluation of architectural support for global address-based communication in large-scale parallel machines**

Arvind Krishnamurthy, Klaus E. Schauser, Chris J. Scheiman, Randolph Y. Wang, David E. Culler, Katherine Yelick
October 1998 **Proceedings of the seventh international conference on Architectural support for programming languages and operating systems**, Volume 30 , 31 Issue 5 , 9

Full text available: [pdf\(1.42 MB\)](#)

Additional information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)



Large-scale parallel machines are incorporating increasingly sophisticated architectural support for user-level messaging and global memory access. We provide a systematic evaluation of a broad spectrum of current design alternatives based on our implementations of a global address language on the Thinking Machines CM-5, Intel Paragon, Meiko CS-2, Cray T3D, and Berkeley NOW. This evaluation includes a range of compilation strategies that make varying use of the network processor; each is optimiz ...

¹⁴ **Migration: Optimizing the migration of virtual computers**

Constantine P. Sapuntzakis, Ramesh Chandra, Ben Pfaff, Jim Chow, Monica S. Lam, Mendel Rosenblum
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue S1

Full text available: [pdf\(1.68 MB\)](#)

Additional information: [full citation](#), [abstract](#), [references](#), [citing](#)



This paper shows how to quickly move the state of a running computer across a network, including the state in its disks, memory, CPU registers, and I/O devices. We call this state a *capsule*. Capsule state is hardware state, so it includes the entire operating system as well as applications and running processes. We have chosen to move x86 computer states because x86 computers are common, cheap, run the software we use, and have tools for migration. Unfortunately, x86 c ...

¹⁵ **Data integration and sharing II: Scientific data repositories: designing for a moving target**

Etzard Stolte, Christoph von Praun, Gustavo Alonso, Thomas Gross
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Full text available: [pdf\(739.27 KB\)](#)

Additional information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)



Managing scientific data warehouses requires constant adaptations to cope with changes in processing algorithms, computing environments, database schemas, and usage patterns. We have faced this challenge in the RHESSI Experimental Data Center (HEDC), a datacenter for the RHESSI NASA spacecraft. In this paper we describe our experience in developing HEDC and discuss in detail the design choices made. To successfully accommodate typical adaptations encountered in scientific data management systems ...

¹⁶ **Client-server computing in mobile environments**

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1998 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available: [pdf\(233.31 KB\)](#)

Additional information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#), [review](#)



Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

¹⁷ **Operating systems: Platform Overlays: enabling in-network stream processing in large-scale distributed applications**

Ada Gavrilovska, Sanjay Kumar, Srikanth Sundaragopalan, Karsten Schwan
June 2005 **Proceedings of the international workshop on Network and operating systems support for digital audio and video NOSSDAV '05**

Full text available: [pdf\(79.42 KB\)](#)

Additional information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)



The purpose of this research is to explore the capabilities of future, multi-core heterogeneous systems, with specialized communication support, to be used as efficient and flexible execution platforms in distributed streaming applications. On such platforms, we create overlays of hardware- and software-supported execution contexts -- *platform overlays*. Stream manipulations, represented via stream handlers, are deployed on top of such overlays, based on the ability of

individual contexts ...

Keywords: network processors, streaming applications

¹⁸ [A distributed scientific data archive using the Web, XML and SQL/MED](#)

Mark Papiani, Jasmin L. Wason, Alistair N. Dunlop, Denis A. Nicole
September 1999 [ACM SIGMOD Record](#), Volume 28 Issue 3

Full text available: [!\[\]\(5a132f13505a6571904d622757b7a8f0_img.jpg\)](#) [pdf\(794.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [clippings](#), [index terms](#)



We have developed a web-based architecture and user interface for fast storage, searching and retrieval of large, distributed, files resulting from scientific simulations. We demonstrate that the new DATALINK type defined in the draft SQL Management of External Data Standard can help to overcome problems associated with limited bandwidth when trying to archive large files using the web. We also show that separating the user interface specification from the user interface processing can prov ...

¹⁹ [Visualization in Grid Computing Environments](#)

Ken Brodlie, David Duce, Julian Gallop, Musbah Sagar, Jeremy Walton, Jason Wood
October 2004 [Proceedings of the conference on Visualization '04](#)

Full text available: [!\[\]\(ab4e2b3fc7e7887b7a72f548aa6f5e60_img.jpg\)](#) [pdf\(350.92 KB\)](#)

Additional Information: [full citation](#), [abstract](#)



Grid computing provides a challenge for visualization system designers. In this research, we evolve the dataflow concept to allow parts of the visualization process to be executed remotely in a secure and seamless manner. We see dataflow at three levels: an abstract specification of the intent of the visualization; a binding of these abstract modules to a specific software system; and then a binding of software to processing and other resources. We develop an XML application capable of describin ...

Keywords: grid computing, visualization systems, XML, computational steering, visualization reference models

²⁰ [MOCHA: a self-extensible database middleware system for distributed data sources](#)

Manuel Rodríguez-Martínez, Nick Roussopoulos
May 2000 [ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD International conference on Management of data](#), Volume 29 Issue 2

Full text available: [!\[\]\(f9f168a9979beed8b01f8750d577d508_img.jpg\)](#) [pdf\(270.77 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [clippings](#), [index terms](#)



We present MOCHA, a new self-extensible database middleware system designed to interconnect distributed data sources. MOCHA is designed to scale to large environments and is based on the idea that some of the user-defined functionality in the system should be deployed by the middleware system itself. This is realized by shipping Java code implementing either advanced data types or tailored query operators to remote data sources and have it executed remotely. Optimized query plans push the eva ...

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